

RADIOCOMMUNICATION VERIFICATION SUMMARY

Report No. HK09061374-1

☐ Electric household products ☐ ITE ☒ Others DECT Phone (Handset Unit)

Model : CL-3602					Applicant: Xingtel Xiamen Electronics Co., Ltd. Xingtel Building, Chuangxin Road, Torch Hi-Tech Industrial District, Xiamen 361006, PR China				
Product Description : DECT Phone (Handset Unit)					Sample Receipt Date : 26 Jun 2009				
Test Conducted Date : 27 Jun 2009 to 31 Jul 2009									
<input checked="" type="checkbox"/> 1 st TEST					ALL TESTS WERE CONDUCTED IN ACCORDANCE WITH: * ETSI EN301406 V1.5.1 (2003-07)				
<input type="checkbox"/> 2 nd TEST (after modification)									
Test Result	OK	Not OK	N/A	See Remark	Test Result	OK	Not OK	N/A	See Remark
Test Case 1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Test Case 14	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Test Case 2	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Test Case 15	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Test Case 3	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Test Case 16	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Test Case 4	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Test Case 17	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Test Case 5	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Test Case 18	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Test Case 6	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Test Case 19	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Test Case 7	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Test Case 20	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Test Case 8	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Test Case 21	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Test Case 9	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Test Case 22	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Test Case 10	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Test Case 23	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Test Case 11	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Test Case 24	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Test Case 12	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Test Case 25	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Test Case 13	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Test Case 26	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Remark: When determining the test conclusion, the Measurement Uncertainty of test has been considered.									

Prepared and Checked by:

Approved by:

Signed On File
Clive Wong
Assistant Engineer

Sit Kim Wai, Ken
Manager

Date: 3 Aug 2009

- The test report only allows to be revised within the retention period unless further standard or the requirement was noticed.
- This report is for the exclusive use of Intertek's Client and is provided pursuant to the agreement between Intertek and its Client. Intertek's responsibility and liability are limited to the terms and conditions of the agreement. Intertek assumes no liability to any party, other than to the Client in accordance with the agreement, for any loss, expense or damage occasioned by the use of this report. Only the Client is authorized to permit copying or distribution of this report and then only in its entirety. Any use of the Intertek name or one of its marks for the sale or advertisement of the tested material, product or service must first be approved in writing by Intertek. The observations and test results in this report are relevant only to the sample tested. This report by itself does not imply that the material, product, or service is or has ever been under an Intertek certification program.

Test Campaign Report

Report No.: HK09061374-1

Test Cases	Clauses	Descriptions	Uncertainty	Results	Remarks
1	4.5.1.	Accuracy and Stability of RF carriers	10kHz	OK	
2	4.5.2.	Timing jitter: slot-slot on the same channel	0.1μs	OK	
3	4.5.2.	Reference timing accuracy of a RFP	1ppm	N/A	1
4	4.5.2.	Measurement of packet timing accuracy	0.1μs	OK	
5	4.5.3.	Transmission Burst	1dB	OK	
6	4.5.4.1.1.	Transmitted Power: PP with an integral antenna	2.2dB	OK	
7	4.5.4.1.2.	Transmitted Power: PP with an external antenna connector	1dB	N/A	1
8	4.5.5.	RF carrier modulation -Part 1 -Part 2 -Part 3 -Part 4	10kHz 10kHz 10kHz 5kHz	OK	
9	4.5.6.2.	Emissions due to modulation	1dB	OK	
10	4.5.6.3.	Emissions due to transmitter transients	1dB	OK	
11	4.5.6.4.	Emissions due to intermodulation	1dB	N/A	1
12	4.5.6.5.	Spurious emissions when allocated a transmit channel (Radiated Emissions)	4.8dB	OK	
12	4.5.6.5.	Spurious emissions when allocated a transmit channel (Conducted Emissions)	3.1dB	OK	
13	4.5.7.1.	Radio receiver sensitivity	5%	OK	
14	4.5.7.2.	Radio receiver reference bit error ratio	5%	OK	
15	4.5.7.3.	Radio receiver interference performance	5%	OK	
16	4.5.7.4.	Radio receiver blocking case 1	5%	OK	
17	4.5.7.5.	Radio receiver blocking case 2	5%	OK	
18	4.5.7.6.	Receiver intermodulation performance	5%	OK	
19	4.5.7.7.	Spurious emissions when the radio endpoint has no allocated transmit channel	4.8dB	OK	
20	4.5.8.	Synchronization port	---	N/A	1
21	4.5.9.	Equipment identity verification / Safeguards	---	OK	2
22	4.5.10.	Efficient use of radio spectrum	---	OK	2
23	4.5.11.	WRS	---	N/A	1
24	4.5.12.	PP to PP communication	---	N/A	1
25	4.5.13.	Direct communication	---	N/A	1
26	4.5.14.	Higher level modulation	---	N/A	1

Remarks:

1. The requirements are not appropriate for the captioned EUT based on the applicant's declared statements and the type of the equipment.
2. There are no defined tests. Conformance by applicant's declaration.

**Radiocommunication Results Conclusion
(with Justification)**

RE: Radiocommunication Testing Pursuant to R&TTE Directive 1999/5/EC
Performed On the DECT Phone (Handset Unit),
Model: CL-3602

We tested the DECT Phone (Handset Unit), Model: CL-3602, to determine if it was in compliance with the relevant EN standards as marked on the Radiocommunication Verification Summary. We found that the unit met the requirement of ETSI EN301406 V1.5.1 (2003-07) standard when tested as received.

The production units are required to conform to the initial sample as received when the units are placed on the market.

LABORATORY MEASUREMENTS**Configuration Information**

Equipment Under Test (EUT):	DECT Phone (Handset Unit)
Model:	CL-3602
Serial No.:	Not Labelled
Support Equipment:	N/A
Cables:	N/A
Battery:	2 x "AAA" 1.2V 600mAh Ni MH Rechargeable Battery
Test Voltage:	Nominal test voltage: 2.6VDC Lower extreme test voltage: 2.4VDC Upper extreme test voltage: 2.85VDC

Applicant: Xingtel Xiamen Electronics Co., Ltd.
Model: CL-3602

Report No.: HK09061374-1

Test Case 1: Accuracy and Stability of RF Carriers (Clause 5.3.1) ----- Pass

--- The measurement was made *during* the first second of transmission

RF Channel	Voltage (Vdc)	Temperature (°C)	Measured Frequency Offset (kHz)	Limits
5	2.6	+21	10	Within $\pm 100\text{kHz}$
	2.4	+0	11	Within $\pm 100\text{kHz}$
	2.85	+0	11	Within $\pm 100\text{kHz}$
	2.4	+40	11	Within $\pm 100\text{kHz}$
	2.85	+40	11	Within $\pm 100\text{kHz}$
0	2.6	+21	11	Within $\pm 100\text{kHz}$
	2.4	+0	11	Within $\pm 100\text{kHz}$
	2.85	+0	11	Within $\pm 100\text{kHz}$
	2.4	+40	12	Within $\pm 100\text{kHz}$
	2.85	+40	11	Within $\pm 100\text{kHz}$
9	2.6	+21	11	Within $\pm 100\text{kHz}$
	2.4	+0	11	Within $\pm 100\text{kHz}$
	2.85	+0	11	Within $\pm 100\text{kHz}$
	2.4	+40	12	Within $\pm 100\text{kHz}$
	2.85	+40	11	Within $\pm 100\text{kHz}$

Applicant: Xingtel Xiamen Electronics Co., Ltd.
Model: CL-3602

Report No.: HK09061374-1

Test Case 1: Accuracy and Stability of RF Carriers (Clause 5.3.1) ----- Pass

--- The measurement was made *after* the first second of transmission

RF Channel	Voltage (Vdc)	Temperature (°C)	Measured Frequency Offset (kHz)	Limits
5	2.6	+21	10	Within ± 50 kHz
	2.4	+0	11	Within ± 50 kHz
	2.85	+0	11	Within ± 50 kHz
	2.4	+40	11	Within ± 50 kHz
	2.85	+40	11	Within ± 50 kHz
0	2.6	+21	10	Within ± 50 kHz
	2.4	+0	11	Within ± 50 kHz
	2.85	+0	11	Within ± 50 kHz
	2.4	+40	12	Within ± 50 kHz
	2.85	+40	12	Within ± 50 kHz
9	2.6	+21	11	Within ± 50 kHz
	2.4	+0	11	Within ± 50 kHz
	2.85	+0	11	Within ± 50 kHz
	2.4	+40	11	Within ± 50 kHz
	2.85	+40	11	Within ± 50 kHz

Applicant: Xingtel Xiamen Electronics Co., Ltd.
Model: CL-3602

Report No.: HK09061374-1

Test Case 2: Timing jitter : slot-slot on the same channel (Clause 5.3.2.1) ----- Pass

RF Channel	Voltage (Vdc)	Temperature (°C)	Measured Packet timing jitter		Limits (Mean)
			Minimum (µs)	Maximum (µs)	
5	2.6	+21	-0.14	0.15	Within ±1µs
	2.4	+0	-0.14	0.15	Within ±1µs
	2.85	+0	-0.15	0.15	Within ±1µs
	2.4	+40	-0.15	0.15	Within ±1µs
	2.85	+40	-0.15	0.15	Within ±1µs

Applicant: Xingtel Xiamen Electronics Co., Ltd.
Model: CL-3602

Report No.: HK09061374-1

Test Case 4: Measurement of packet timing accuracy (Clause 5.3.2.3) ----- Pass

RF Channel	Voltage (Vdc)	Temperature (°C)	Measured Packet Delay		Limits (Mean)
			Minimum (μs)	Maximum (μs)	
5	2.6	+21	-0.67	-0.50	Within ±2μs
	2.4	+0	-0.64	-0.48	Within ±2μs
	2.85	+0	-0.63	-0.48	Within ±2μs
	2.4	+40	-0.67	-0.53	Within ±2μs
	2.85	+40	-0.67	-0.51	Within ±2μs
0	2.6	+21	-0.70	-0.55	Within ±2μs
	2.4	+0	-0.66	-0.49	Within ±2μs
	2.85	+0	-0.68	-0.47	Within ±2μs
	2.4	+40	-0.71	-0.52	Within ±2μs
	2.85	+40	-0.71	-0.54	Within ±2μs
9	2.6	+21	-0.64	-0.49	Within ±2μs
	2.4	+0	-0.64	-0.47	Within ±2μs
	2.85	+0	-0.60	-0.48	Within ±2μs
	2.4	+40	-0.64	-0.51	Within ±2μs
	2.85	+40	-0.63	-0.50	Within ±2μs

Applicant: Xingtel Xiamen Electronics Co., Ltd.
Model: CL-3602

Report No.: HK09061374-1

Test Case 5: Transmission Burst (Clause 5.3.3)

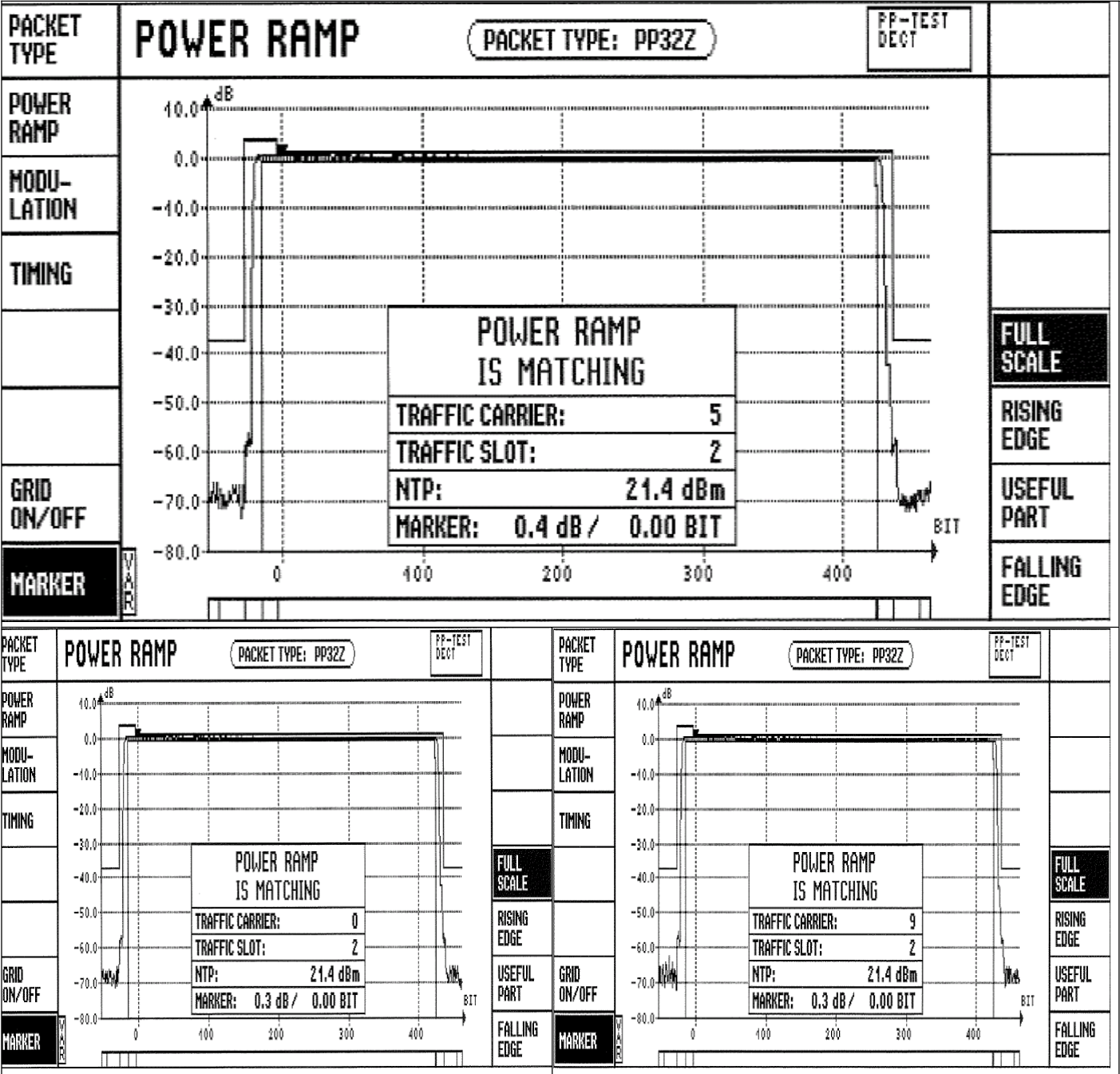
RF Channel	Voltage (Vdc)	Temperature (°C)	Limits	Result	Details
5	2.6	+21	Matching with Defined Power – Time Template	Pass	See Attachment Ctrl No. 5.1.1
	2.6	+0	Matching with Defined Power – Time Template	Pass	See Attachment Ctrl No. 5.1.2
	2.6	+40	Matching with Defined Power – Time Template	Pass	See Attachment Ctrl No. 5.1.3
0	2.6	+21	Matching with Defined Power – Time Template	Pass	See Attachment Ctrl No. 5.1.1
	2.6	+0	Matching with Defined Power – Time Template	Pass	See Attachment Ctrl No. 5.1.2
	2.6	+40	Matching with Defined Power – Time Template	Pass	See Attachment Ctrl No. 5.1.3
9	2.6	+21	Matching with Defined Power – Time Template	Pass	See Attachment Ctrl No. 5.1.1
	2.6	+0	Matching with Defined Power – Time Template	Pass	See Attachment Ctrl No. 5.1.2
	2.6	+40	Matching with Defined Power – Time Template	Pass	See Attachment Ctrl No. 5.1.3

INTERTEK TESTING SERVICES

Report No. : HK09061374-1

RF Channel, C = 5, 0, 9

Temperature: Ambient



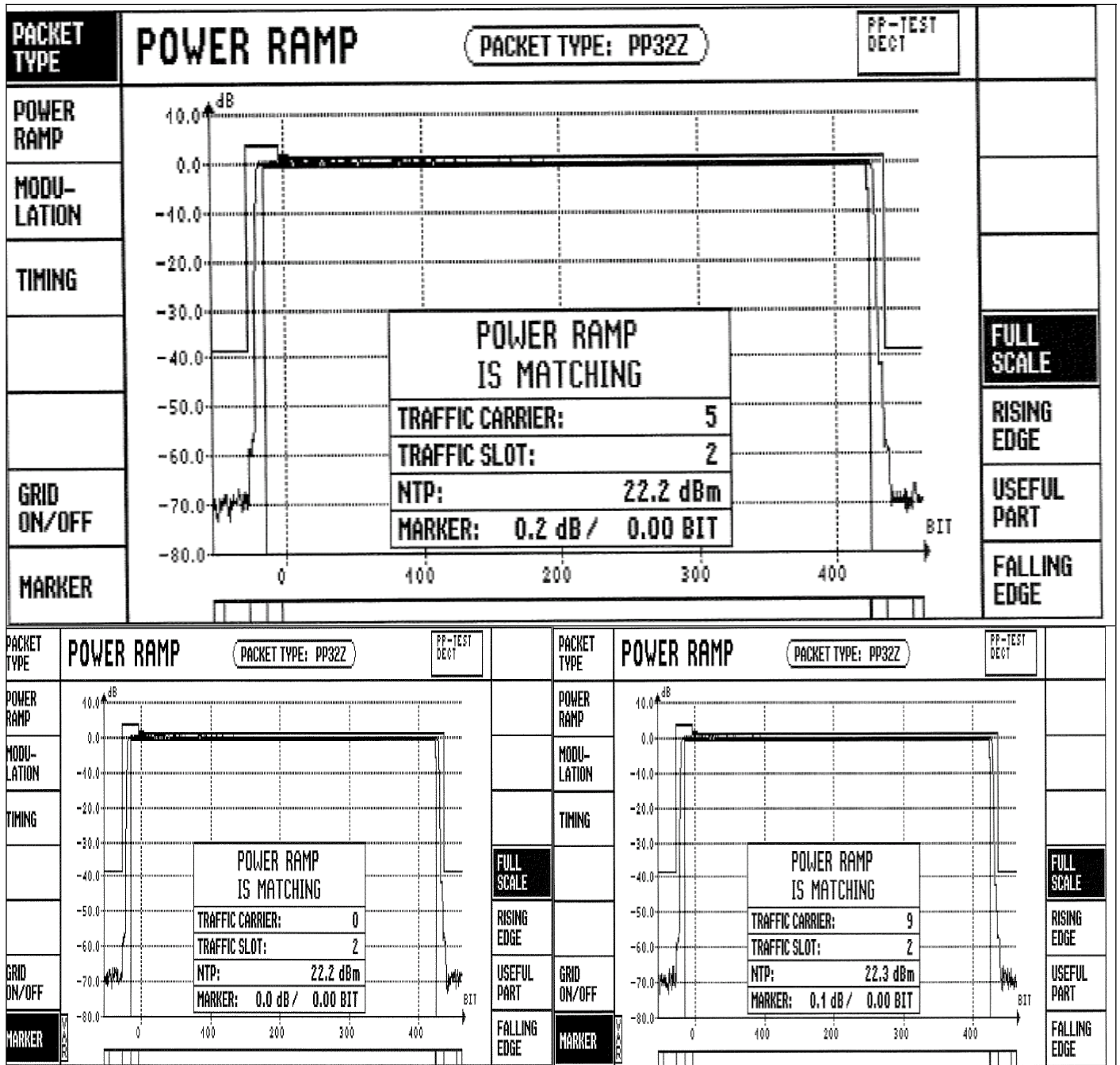
Ctrl. No.: 5.1.1

INTERTEK TESTING SERVICES

Report No. : HK09061374-1

RF Channel, C = 5, 0, 9

Temperature: 0°C



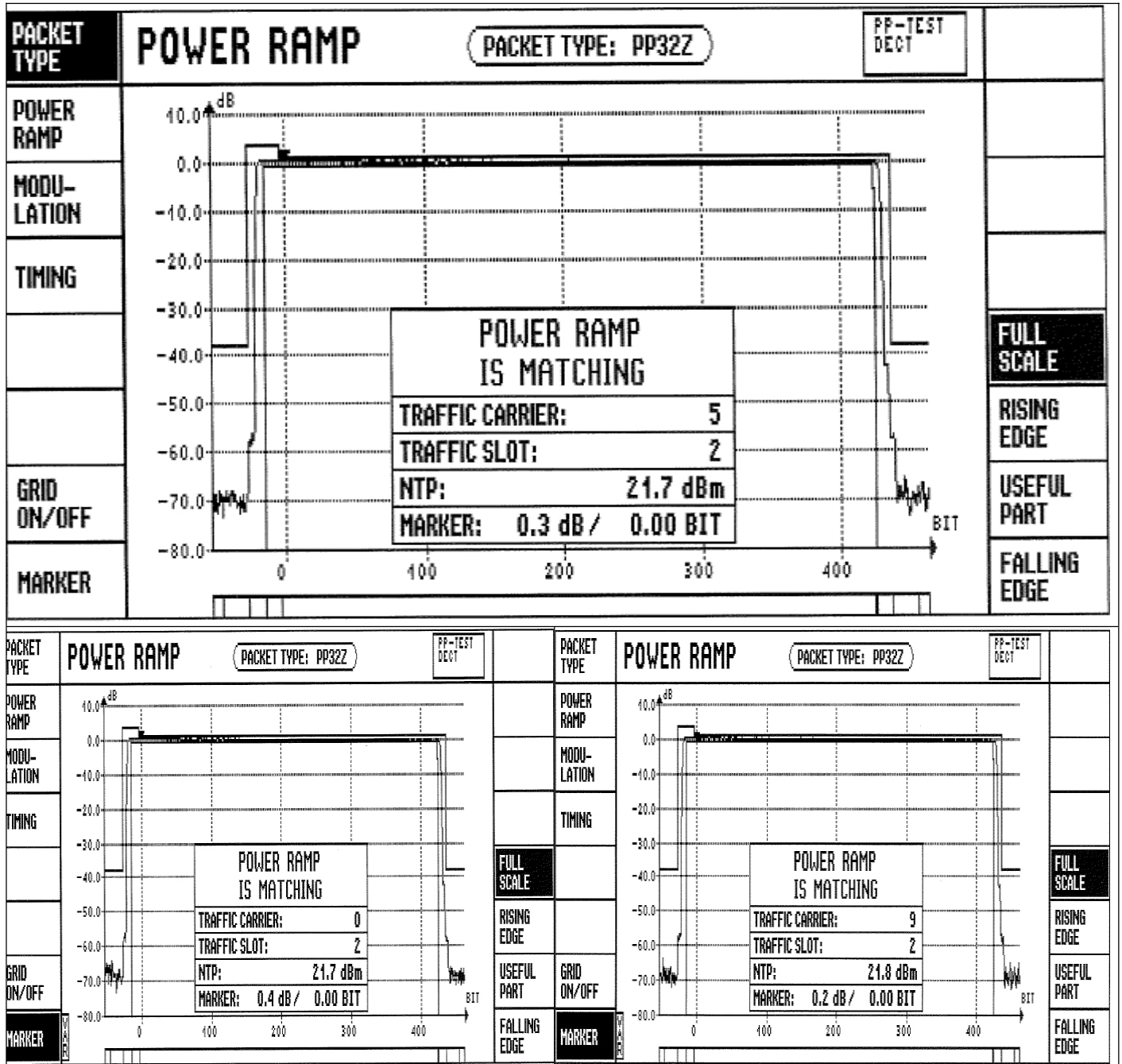
Ctrl. No.: 5.1.2

INTERTEK TESTING SERVICES

Report No. : HK09061374-1

RF Channel, C = 5, 0, 9

Temperature: +40°C



Ctrl. No.: 5.1.3

Applicant: Xingtel Xiamen Electronics Co., Ltd.
Model: CL-3602

Report No.: HK09061374-1

Test Case 6: Transmitted Power: RFP with an integral antenna (Clause 5.3.4.1) - Pass

RF Channel	Voltage (Vdc)	Temperature (°C)	Measured Radiated Power, P_T (dBm)	Measured Normal Transmitted Power, NTP (dBm)	Antenna Gain, G (dB)	Limits
5	2.6	+24	19.3	21.4	-2.1	NTP < 24dBm, $G < [12 + (24 - NTP)]$
0	2.6	+24	19.4	21.4	-2.0	NTP < 24dBm, $G < [12 + (24 - NTP)]$
9	2.6	+24	19.2	21.4	-2.2	NTP < 24dBm, $G < [12 + (24 - NTP)]$

Applicant: Xingtel Xiamen Electronics Co., Ltd.
Model: CL-3602

Report No.: HK09061374-1

Test Case 8: RF carrier modulation (Clause 5.3.5.2)

Part 1 measurement (Clause 5.3.5.2.2) ----- Pass

RF Channel	Voltage (Vdc)	Temperature (°C)	Number of Bursts Evaluated	Lower Limit (kHz)	Peak Frequency Deviation (kHz)	Upper Limit (kHz)
5	2.6	+23	10	259.0	384	403.0
				-403.0	-386	-259.0

Part 2 measurement (Clause 5.3.5.2.3) ----- Pass

RF Channel	Voltage (Vdc)	Temperature (°C)	Number of Bursts Evaluated	Lower Limit (kHz)	Peak Frequency Deviation (kHz)	Upper Limit (kHz)
5	2.6	+23	10	202.0	388	403.0
				-403.0	-397	-202.0

Part 3 measurement (Clause 5.3.5.3.1) ----- Pass

RF Channel	Voltage (Vdc)	Temperature (°C)	Number of Bursts Evaluated	Lower Limit (kHz)	Peak Frequency Deviation (kHz)	Upper Limit (kHz)
5	2.6	+23	10	202.0	325	403.0
				-403.0	-339	-202.0

Part 4 measurement (Clause 5.3.5.3.2) ----- Pass

RF Channel	Voltage (Vdc)	Temperature (°C)	Measured Frequency Drift	Limit
5	2.6	+23	3 kHz / slot	Within ± 17 kHz / slot

Applicant: Xingtel Xiamen Electronics Co., Ltd.
Model: CL-3602

Report No.: HK09061374-1

Test Case 9: Emissions due to modulation (Clause 5.3.6.2) ----- Pass

Evaluating RF Channel	Voltage (Vdc)	Temperature (°C)	Emission RF Channel	Measured Emission Power (dBm)	Limits (dBm)
5	2.6	+22	0	-54.74	<-44
	2.6	+22	1	-53.45	<-44
	2.6	+22	2	-46.85	<-41
	2.6	+22	3	-43.52	<-30
	2.6	+22	4	-19.76	<-8
	2.6	+22	6	-20.19	<-8
	2.6	+22	7	-43.53	<-30
	2.6	+22	8	-46.87	<-41
	2.6	+22	9	-53.45	<-44
0	2.6	+22	1	-20.02	<-8
	2.6	+22	2	-37.95	<-30
	2.6	+22	3	-46.89	<-41
	2.6	+22	4	-53.66	<-44
	2.6	+22	5	-54.88	<-44
	2.6	+22	6	-55.64	<-44
	2.6	+22	7	-56.12	<-44
	2.6	+22	8	-55.45	<-44
	2.6	+22	9	-56.65	<-44
9	2.6	+22	0	-56.35	<-44
	2.6	+22	1	-55.30	<-44
	2.6	+22	2	-55.82	<-44
	2.6	+22	3	-55.41	<-44
	2.6	+22	4	-54.70	<-44
	2.6	+22	5	-51.65	<-44
	2.6	+22	6	-46.86	<-41
	2.6	+22	7	-44.01	<-30
	2.6	+22	8	-19.93	<-8

Remarks: 1. Only one instance of 44 dBm maximum power is allowed among the conditions with bolded limit for each evaluating RF channel 0, 5 and 9.

Ctrl. No.: 9.1

Applicant: Xingtel Xiamen Electronics Co., Ltd.
Model: CL-3602

Report No.: HK09061374-1

Test Case 10: Emissions due to transmitter transients (Clause 5.3.6.3) ----- Pass

Evaluating RF Channel	Voltage (Vdc)	Temperature (°C)	Emission RF Channel	Measured Emission Power (dBm)	Limits (dBm)
0	2.6	+22	1	-13.86	<-6
	2.6	+22	2	-42.25	<-14
	2.6	+22	3	-45.66	<-24
	2.6	+22	4	-40.63	<-30
	2.6	+22	5	-47.41	<-30
	2.6	+22	6	-47.53	<-30
	2.6	+22	7	-47.88	<-30
	2.6	+22	8	-41.58	<-30
	2.6	+22	9	-47.05	<-30
1	2.6	+22	0	-12.33	<-6
	2.6	+22	2	-13.18	<-6
	2.6	+22	3	-41.14	<-14
	2.6	+22	4	-46.10	<-24
	2.6	+22	5	-41.22	<-30
	2.6	+22	6	-47.34	<-30
	2.6	+22	7	-45.92	<-30
	2.6	+22	8	-47.38	<-30
	2.6	+22	9	-42.02	<-30
2	2.6	+22	0	-42.31	<-14
	2.6	+22	1	-12.30	<-6
	2.6	+22	3	-12.76	<-6
	2.6	+22	4	-41.87	<-14
	2.6	+22	5	-45.41	<-24
	2.6	+22	6	-41.00	<-30
	2.6	+22	7	-47.49	<-30
	2.6	+22	8	-47.69	<-30
	2.6	+22	9	-47.31	<-30

Applicant: Xingtel Xiamen Electronics Co., Ltd.
Model: CL-3602

Report No.: HK09061374-1

Evaluating RF Channel	Voltage (Vdc)	Temperature (°C)	Emission RF Channel	Measured Emission Power (dBm)	Limits (dBm)
3	2.6	+22	0	-45.57	<-24
	2.6	+22	1	-42.06	<-14
	2.6	+22	2	-12.99	<-6
	2.6	+22	4	-13.85	<-6
	2.6	+22	5	-41.91	<-14
	2.6	+22	6	-46.20	<-24
	2.6	+22	7	-41.11	<-30
	2.6	+22	8	-46.86	<-30
	2.6	+22	9	-47.32	<-30
4	2.6	+22	0	-41.61	<-30
	2.6	+22	1	-46.11	<-24
	2.6	+22	2	-42.47	<-14
	2.6	+22	3	-13.12	<-6
	2.6	+22	5	-12.82	<-6
	2.6	+22	6	-42.24	<-14
	2.6	+22	7	-46.34	<-24
	2.6	+22	8	-39.62	<-30
	2.6	+22	9	-47.16	<-30
5	2.6	+22	0	-47.56	<-30
	2.6	+22	1	-42.10	<-30
	2.6	+22	2	-46.59	<-24
	2.6	+22	3	-40.65	<-14
	2.6	+22	4	-12.68	<-6
	2.6	+22	6	-12.97	<-6
	2.6	+22	7	-42.64	<-14
	2.6	+22	8	-46.18	<-24
	2.6	+22	9	-41.01	<-30

Applicant: Xingtel Xiamen Electronics Co., Ltd.
Model: CL-3602

Report No.: HK09061374-1

Evaluating RF Channel	Voltage (Vdc)	Temperature (°C)	Emission RF Channel	Measured Emission Power (dBm)	Limits (dBm)
6	2.6	+22	0	-47.46	<-30
	2.6	+22	1	-47.41	<-30
	2.6	+22	2	-41.60	<-30
	2.6	+22	3	-46.31	<-24
	2.6	+22	4	-42.44	<-14
	2.6	+22	5	-12.79	<-6
	2.6	+22	7	-13.76	<-6
	2.6	+22	8	-41.86	<-14
	2.6	+22	9	-46.00	<-24
7	2.6	+22	0	-47.65	<-30
	2.6	+22	1	-47.47	<-30
	2.6	+22	2	-47.68	<-30
	2.6	+22	3	-42.26	<-30
	2.6	+22	4	-45.91	<-24
	2.6	+22	5	-42.10	<-14
	2.6	+22	6	-12.36	<-6
	2.6	+22	8	-14.08	<-6
	2.6	+22	9	-42.80	<-14
8	2.6	+22	0	-42.41	<-30
	2.6	+22	1	-47.48	<-30
	2.6	+22	2	-47.50	<-30
	2.6	+22	3	-47.59	<-30
	2.6	+22	4	-42.37	<-30
	2.6	+22	5	-46.65	<-24
	2.6	+22	6	-41.92	<-14
	2.6	+22	7	-12.28	<-6
	2.6	+22	9	-13.18	<-6

Applicant: Xingtel Xiamen Electronics Co., Ltd.
Model: CL-3602

Report No.: HK09061374-1

Evaluating RF Channel	Voltage (Vdc)	Temperature (°C)	Emission RF Channel	Measured Emission Power (dBm)	Limits (dBm)
9	2.6	+22	0	-46.97	<-30
	2.6	+22	1	-42.96	<-30
	2.6	+22	2	-47.33	<-30
	2.6	+22	3	-47.69	<-30
	2.6	+22	4	-47.32	<-30
	2.6	+22	5	-42.05	<-30
	2.6	+22	6	-46.74	<-24
	2.6	+22	7	-42.68	<-14
	2.6	+22	8	-11.94	<-6

Applicant: Xingtel Xiamen Electronics Co., Ltd.
Model: CL-3602

Report No.: HK09061374-1

Test Case 12: Spurious emissions when allocated a transmit channel

Radiated Emissions (Clause 5.3.6.5.1) ----- Pass

Data Table

Radiated Scan

Pursuant to EN 301 406 : Section 5.3.6.5.1.3 Emissions Requirement

<u>Polarization</u>	Frequency (MHz)	Measured Power (dBm)	Limit (dBm)	Margin (dB)
V	3778.024	-36.6	-30	-6.6

- Notes: 1. Negative sign (-) in the margin column signify levels below the limit.
2. Only emissions significantly above equipment noise floor are reported.
3. Frequency range scanned: 30 MHz to 4000 MHz
4. -30 dBm corresponds to 1 μ W
5. -36 dBm corresponds to 250 nW

Applicant: Xingtel Xiamen Electronics Co., Ltd.
Model: CL-3602

Report No.: HK09061374-1

Test Case 12: Spurious emissions when allocated a transmit channel

Conducted Spurious Emissions (Clause 5.3.6.5.2) ----- Pass

Data Table

Conducted Scan

Pursuant to EN 301 406 : Section 5.3.6.5.2.3 Emissions Requirement

Frequency (GHz)	Measured Power (dBm)	Limit (dBm)	Margin (dB)
4.800	-50.95	-30	-20.95
5.890	-51.93	-30	-21.93
6.778	-50.71	-30	-20.71
7.264	-50.77	-30	-20.77
8.012	-50.71	-30	-20.71
9.484	-43.20	-30	-13.20
10.348	-50.68	-30	-20.68
11.292	-50.22	-30	-20.22
12.429	-51.74	-30	-21.74

- Notes: 1. Negative sign (-) in the margin column signify levels below the limit.
2. Only emissions significantly above equipment noise floor are reported.
3. Frequency range scanned: 4 GHz to 12.75GHz
4. -30 dBm corresponds to 1 μ W

Applicant: Xingtel Xiamen Electronics Co., Ltd.
Model: CL-3602

Report No.: HK09061374-1

Test Case 13: Radio Receiver Sensitivity (Clause 5.3.7.1) ----- Pass

RF Channel	Voltage (Vdc)	Temperature (°C)	RF Carrier Frequency Offset	Measured Bit Error Rate, BER	Limits
5	2.6	+22	0 kHz	0.000	≤0,001
	2.6	+22	-50 kHz	0.000	≤0,001
	2.6	+22	+50 kHz	0.000	≤0,001
0	2.6	+22	0 kHz	0.000	≤0,001
	2.6	+22	-50 kHz	0.000	≤0,001
	2.6	+22	+50 kHz	0.000	≤0,001
9	2.6	+22	0 kHz	0.000	≤0,001
	2.6	+22	-50 kHz	0.000	≤0,001
	2.6	+22	+50 kHz	0.000	≤0,001

Applicant: Xingtel Xiamen Electronics Co., Ltd.
Model: CL-3602

Report No.: HK09061374-1

Test Case 14: Radio Receiver Reference Bit Error Ratio (Clause 5.3.7.2) ----- Pass

RF Channel	Voltage (Vdc)	Temperature (°C)	Measured Frame Error Rate FER	Measured Bit Error Rate BER	Limits
5	2.6	+22	0.000000	0.0000000	BER ≤ 0,00001, FER ≤ 0,0005
0	2.6	+22	0.000000	0.0000000	BER ≤ 0,00001, FER ≤ 0,0005
9	2.6	+22	0.000000	0.0000000	BER ≤ 0,00001, FER ≤ 0,0005

Applicant: Xingtel Xiamen Electronics Co., Ltd.
Model: CL-3602

Report No.: HK09061374-1

Test Case 15: Radio Receiver Interference Performance (Clause 5.3.7.3) ----- Pass

Evaluating RF Channel	Voltage (Vdc)	Temperature (°C)	DECT-Like Interferer RF Channel	Measured Bit Error Rate BER	Limits
5	2.6	+22	5	0.00003	BER ≤ 0,001
	2.6	+22	4	0.00001	BER ≤ 0,001
	2.6	+22	6	0.00000	BER ≤ 0,001
	2.6	+22	3	0.00001	BER ≤ 0,001
	2.6	+22	7	0.00001	BER ≤ 0,001
	2.6	+22	-3	0.00000	BER ≤ 0,001
	2.6	+22	-2	0.00000	BER ≤ 0,001
	2.6	+22	-1	0.00000	BER ≤ 0,001
	2.6	+22	0	0.00000	BER ≤ 0,001
	2.6	+22	1	0.00000	BER ≤ 0,001
	2.6	+22	2	0.00000	BER ≤ 0,001
	2.6	+22	8	0.00000	BER ≤ 0,001
	2.6	+22	9	0.00000	BER ≤ 0,001
	2.6	+22	10	0.00000	BER ≤ 0,001
	2.6	+22	11	0.00000	BER ≤ 0,001
	2.6	+22	12	0.00000	BER ≤ 0,001

Applicant: Xingtel Xiamen Electronics Co., Ltd.
Model: CL-3602

Report No.: HK09061374-1

Evaluating RF Channel	Voltage (Vdc)	Temperature (°C)	DECT-Like Interferer RF Channel	Measured Bit Error Rate BER	Limits
0	2.6	+22	0	0.00004	BER ≤ 0,001
	2.6	+22	-1	0.00002	BER ≤ 0,001
	2.6	+22	1	0.00000	BER ≤ 0,001
	2.6	+22	-2	0.00002	BER ≤ 0,001
	2.6	+22	2	0.00001	BER ≤ 0,001
	2.6	+22	-3	0.00000	BER ≤ 0,001
	2.6	+22	3	0.00000	BER ≤ 0,001
	2.6	+22	4	0.00000	BER ≤ 0,001
	2.6	+22	5	0.00000	BER ≤ 0,001
	2.6	+22	6	0.00000	BER ≤ 0,001
	2.6	+22	7	0.00000	BER ≤ 0,001
	2.6	+22	8	0.00000	BER ≤ 0,001
	2.6	+22	9	0.00000	BER ≤ 0,001
	2.6	+22	10	0.00000	BER ≤ 0,001
	2.6	+22	11	0.00000	BER ≤ 0,001
	2.6	+22	12	0.00000	BER ≤ 0,001
9	2.6	+22	9	0.00002	BER ≤ 0,001
	2.6	+22	8	0.00000	BER ≤ 0,001
	2.6	+22	10	0.00000	BER ≤ 0,001
	2.6	+22	7	0.00000	BER ≤ 0,001
	2.6	+22	11	0.00000	BER ≤ 0,001
	2.6	+22	-3	0.00000	BER ≤ 0,001
	2.6	+22	-2	0.00000	BER ≤ 0,001
	2.6	+22	-1	0.00000	BER ≤ 0,001
	2.6	+22	0	0.00000	BER ≤ 0,001
	2.6	+22	1	0.00000	BER ≤ 0,001
	2.6	+22	2	0.00000	BER ≤ 0,001
	2.6	+22	3	0.00000	BER ≤ 0,001
	2.6	+22	4	0.00000	BER ≤ 0,001
	2.6	+22	5	0.00000	BER ≤ 0,001
	2.6	+22	6	0.00000	BER ≤ 0,001
	2.6	+22	12	0.00000	BER ≤ 0,001

Applicant: Xingtel Xiamen Electronics Co., Ltd.
Model: CL-3602

Report No.: HK09061374-1

Test Case 16: Radio Receiver Blocking Case 1 (Clause 5.3.7.4):

Owing to signals occurring at the same time but on other frequencies

Section 5.3.7.4.2 h)

With Interferers as below, no Separated Occurrences were found.

<i>Frequency (f) (MHz)</i>	<i>Conducted interferer level (dBm)</i>
$25\text{ MHz} \leq f < F_L - 100\text{ MHz}$	-23
$F_L - 100\text{ MHz} \leq f < F_L - 5\text{ MHz}$	-33
$ f - F_c > 6\text{ MHz}$	-43
$F_U + 5\text{ MHz} < f \leq F_U + 100\text{ MHz}$	-33
$F_U + 100\text{ MHz} < f \leq 12,75\text{ GHz}$	-23

F_L : 1880.000MHz

F_c : 1888.704MHz

F_U : 1900.000MHz

Section 5.3.7.4.2 i)

With Interferers reduced to -43dBm for the frequency causing BER > 0,001, no frequency resulting in BER > 0,001 were found such that no Separated Occurrences were found.

Section 5.3.7.4.2 j)

With Interferers reduced to -63dBm for the frequency causing BER > 0,001, no frequency resulting in BER > 0,001 were found such that no Separated Occurrences were found.

	<i>Total number of Separated Occurrences</i>	<i>Limits</i>	<i>Results</i>
Section 5.3.7.4.2 h)	0	≤ 8	OK
Section 5.3.7.4.2 i)	0	≤ 4	OK
Section 5.3.7.4.2 j)	0	$= 0$	OK
Overall Results			Pass

Applicant: Xingtel Xiamen Electronics Co., Ltd.
Model: CL-3602

Report No.: HK09061374-1

Test Case 17: Radio Receiver Blocking Case 2 (Clause 5.3.7.5):

Owing to signals occurring at a different time ----- **Pass**

RF Channel	Voltage (Vdc)	Temperature (°C)	DECT-like Interferer RF Channel	Measured Bit Error Rate BER	Limits
5	2.6	+22	5	0.00011	BER ≤ 0,001
0	2.6	+22	0	0.00023	BER ≤ 0,001
9	2.6	+22	9	0.00006	BER ≤ 0,001

Applicant: Xingtai Xiamen Electronics Co., Ltd.
Model: CL-3602

Report No.: HK09061374-1

Test Case 18: Receiver Intermodulation Performance (Clause 5.3.7.6) ----- Pass

RF Channel	Voltage (Vdc)	Temperature (°C)	DECT-like Interferer RF Channel	Continuous-wave Interferer RF Channel	Measured Bit Error Rate BER	Limits
5	2.6	+22	9	7	0.00000	BER ≤ 0,001
5	2.6	+22	1	3	0.00085	BER ≤ 0,001
0	2.6	+22	4	2	0.00000	BER ≤ 0,001
9	2.6	+22	5	7	0.00067	BER ≤ 0,001

Applicant: Xingtel Xiamen Electronics Co., Ltd.
Model: CL-3602

Report No.: HK09061374-1

Test Case 19: Spurious emissions when the PP has no allocated transmit channel (Clause 5.3.7.7) ----- Pass

Data Table

Radiation Scan Pursuant to EN 301 406 : Section 5.3.6.5.2.3 Emissions Requirement

<u>Polarization</u>	Frequency (MHz)	Measured Power (dBm)	Limit (dBm)	Margin (dB)
V	39.485	-63.7	-57	-6.7
V	49.256	-63.2	-57	-6.2
V	54.621	-63.1	-57	-6.1
V	108.376	-64.1	-57	-7.1
V	169.425	-64.4	-57	-7.4
V	3764.706	-49.8	-47	-2.8
V	3778.492	-50.0	-47	-3.0
V	3785.531	-51.8	-47	-4.8
V	3798.628	-52.1	-47	-5.1
H	3802.486	-52.6	-47	-5.6

- Notes:
1. Negative sign (-) in the margin column signify levels below the limit.
 2. Only emissions significantly above equipment noise floor are reported.
 3. Frequency range scanned: 30 MHz to 4000MHz
 4. -47 dBm corresponds to 20 nW
 5. -57 dBm corresponds to 2 nW

Ctrl. No.: 19.1

Applicant: Xingtel Xiamen Electronics Co., Ltd.
Model: CL-3602

Report No.: HK09061374-1

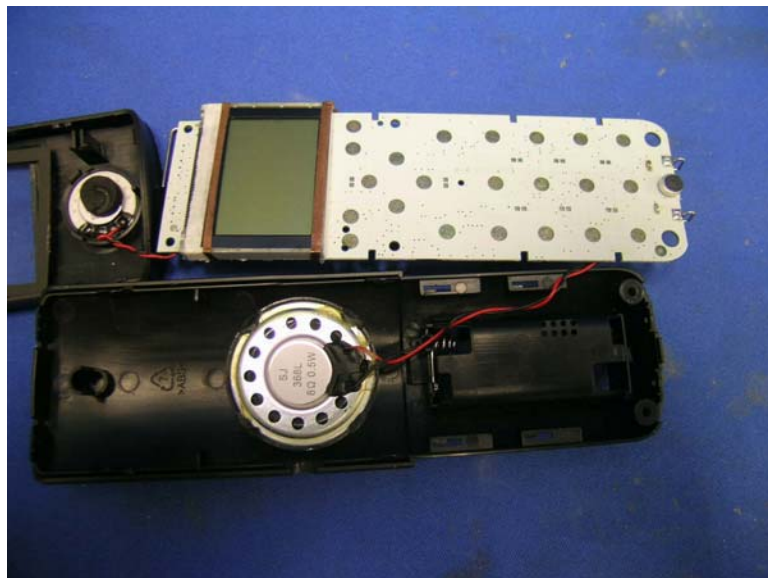
EUT Photos (External---With Integral Antenna)



Applicant: Xingtel Xiamen Electronics Co., Ltd.
Model: CL-3602

Report No.: HK09061374-1

EUT Photos (Internal --- With Integral Antenna)



Ctrl. No.: 20.1.2

Applicant: Xingtel Xiamen Electronics Co., Ltd.
Model: CL-3602

Report No.: HK09061374-1

EUT Photos (Internal --- With Integral Antenna)



Applicant: Xingtel Xiamen Electronics Co., Ltd.
Model: CL-3602

Report No.: HK09061374-1

Applicant's Declaration

Notes:

1. A page of statement from the applicant, declaring the captioned model fulfils the requirement of "*Equipment Identity Verification / Safeguards*" and "*Efficient Use of the Radio Spectrum*", is attached.
2. Totally 2 pages of statement from the applicant, providing extra information for the conformance test, are attached.



XINGTEL XIAMEN ELECTRONICS CO., LTD.
Xingtel Building, Chuangxin Road, Torch Hi-Tech Industrial
District, Xiamen 361006, PR China
E-mail: info@xingtel.com Website: http://www.xingtel.com

Tel: +86-592-562-5929
+86-592-603 6442
Fax: +86-592-603-7860

Appendix I

Re: Model: CL-3602

With reference to the captioned model, I hereby to declare that the samples fulfil both of the following requirements accordingly:

1. Equipment Identity Verification/Safeguards

-- Described in "ETSI EN 301406 V1.5.1 (2003-07) sections 4.5.9 & 5.3.9)"

2. Efficient use of the radio spectrum

-- Described in "ETSI EN 301406 V1.5.1 (2003-07) sections 4.5.10 & 5.3.10)"

Dated this 30 day of June 2009.

By  _____ Simon Liu
Signature Printed

Title Director

PROTOCOL IMPLEMENTATION CONFORMANCE STATEMENT (PICS). DECT EQUIPMENT, EN 301 406.

Model : CL-3602

1. Terminal type : FP ☐ PP ☒ WRS (Wireless Relay Station) ☐
CTA (Cordless Terminal Adaptor) ☐ HyP (Hibrid Part) ☐
2. FP, RFP or CCFP class : E1 ☒ E2 ☐
3. FP Synchronization port for intersystem synchronization : Yes ☐ No ☒
4. PP to PP communication mode : Yes ☐ No ☒
5. Distributed communications option : Yes ☐ No ☒
6. Higher level modulation options (see EN 301 406 v1.4.1 section 4.5.14) : Yes ☐ No ☒

If yes, specify configuration(s):

7. Frequency Band :

1880

 GHz to

1900

 GHz

8. RFPI (Radio Fixed Part Identity, 10 hexadecimal characters):

0	5	4	3	2	1	0	0	0	0
---	---	---	---	---	---	---	---	---	---

9. PMID (Portable Mac Identity, 5 hexadecimal characters) :

--	--	--	--	--

10. Packet type : A-Field only ☐ Half Slot ☐ Full Slot ☒ Double Slot ☐

11. Z field : Yes ☒ No ☐

12. Antenna diversity : Yes ☐ No ☒

13. Receiver LO Frequency band:

1880

 GHz to

1900

 GHz

0.5

 dBm

14. Cable loss of Conducted Sample:

15. Number of external antenna connectors : 0 ☒ 1 ☐ 2 ☐ 3 ☐ other:

16. Number of integral antennas : 0 ☐ 1 ☒ 2 ☐ 3 ☐ other:

17. Number of external antennas : 0 ☒ 1 ☐ 2 ☐ 3 ☐ other:

18. Antenna number for test on channel 0 : 0 ☐ 1 ☒ 2 ☐ 3 ☐ other:

19. Antenna number for test on channel 5 : 0 ☐ 1 ☒ 2 ☐ 3 ☐ other:

20. Antenna number for test on channel 9 : 0 ☐ 1 ☒ 2 ☐ 3 ☐ other:

21. DP bit (value of the DP bit in the message "defeat antenna diversity"): 0 ☒ 1 ☐

22. Power supply : AC ☐ Ni Cd ☐ Pb Acid ☐ ☒ other: Ni-MH

23. Nominal working voltage (V) :

24. Minimum testing power supply (V) :

25. Maximum testing power supply (V):

26. Maximum number of slots per frame the EUT is capable of transmitting
in normal operation:

27. Test mode setup procedure:
Handset TRB6

1. Dis-connect the power of base
2. Press [Menu*1006] enter the test mode and the LCD will show Test Base
3. Press down and LCD will show Test Handset
4. Press Menu , LCD will show SW Version
- 5, Press 6 ,LCD will show TBR6
- 6, Press Menu to access to handset TBR6
7. Remove the battery to exist test mode completely.

NOTE: Scrambling must be disabled for EN 301 406 test

Dated this 30 day of June 2009.

By  Simon Liu

Signature

Printed

Title Director

INTERTEK TESTING SERVICES
TO OUR CLIENTS
GUIDELINES
FOR COMPLETING A
DECLARATION OF CONFORMITY

There are many Directives and Standards in place, and you should assure yourself that the correct ones have been applied to your product.

The attached blank Declaration of Conformity complies with the format published in the Official Journal of the European Community. To complete the form:

1. List all applicable Directives, by number, on the top lines.

e.g. 88/378/EEC for Toy Directive
2004/108/EC for EMC Directive
2006/95/EC for Low Voltage Directive
93/68/EEC for CE Marking Directive
1999/5/EC for R&TTE Directive
2. List the Standards under these Directives to which conformity is being declared. Intertek Testing Services test report(s) which you should retain to support your declaration contain this information.
3. Add manufacturer's and importer's name and address. The importer should be located within the EU.
4. Specify the type of equipment and model. You may list a block of serial numbers corresponding to the import quantity during the year of manufacture shown.
5. The Declaration of Conformity should be signed by the manufacturer or his authorized representative established within the EU.

NOTES:

- A. A COPY OF THE DECLARATION MUST ACCOMPANY IMPORT PAPERS INTO THE EC. ADDITIONAL COPIES MAY ALSO BE SUPPLIED IN EACH PRODUCT CARTON, WITH EACH PALLETIZED SHIPMENT, IN THE INSTRUCTION MANUAL OR ON THE WARRANTY CARD.
- B. THE IMPORTER OR THE MANUFACTURER'S AUTHORIZED REPRESENTATIVE MUST KEEP THE DECLARATION OF CONFORMITY AND THE TEST REPORTS AT THE DISPOSAL OF THE AUTHORITIES FOR A PERIOD OF TEN YEARS AFTER THE EQUIPMENT HAS BEEN PLACED ON THE MARKET.

Declaration of Conformity

Application of Council Directive(s):

Standard(s) to which Conformity is Declared:

Manufacturer's Name :

Manufacturer's Address :

.....

Import's Name :

Import's Address :

.....

Type of Equipment :

Model No. :

Serial No. :

Year of Manufacturer :

I, the undersigned, hereby declare that the equipment specified above conforms to the above Directive(s) and Standard(s).

Place :

(Signature)

Date :

(Full Name)

(Position)